

Fig. 1

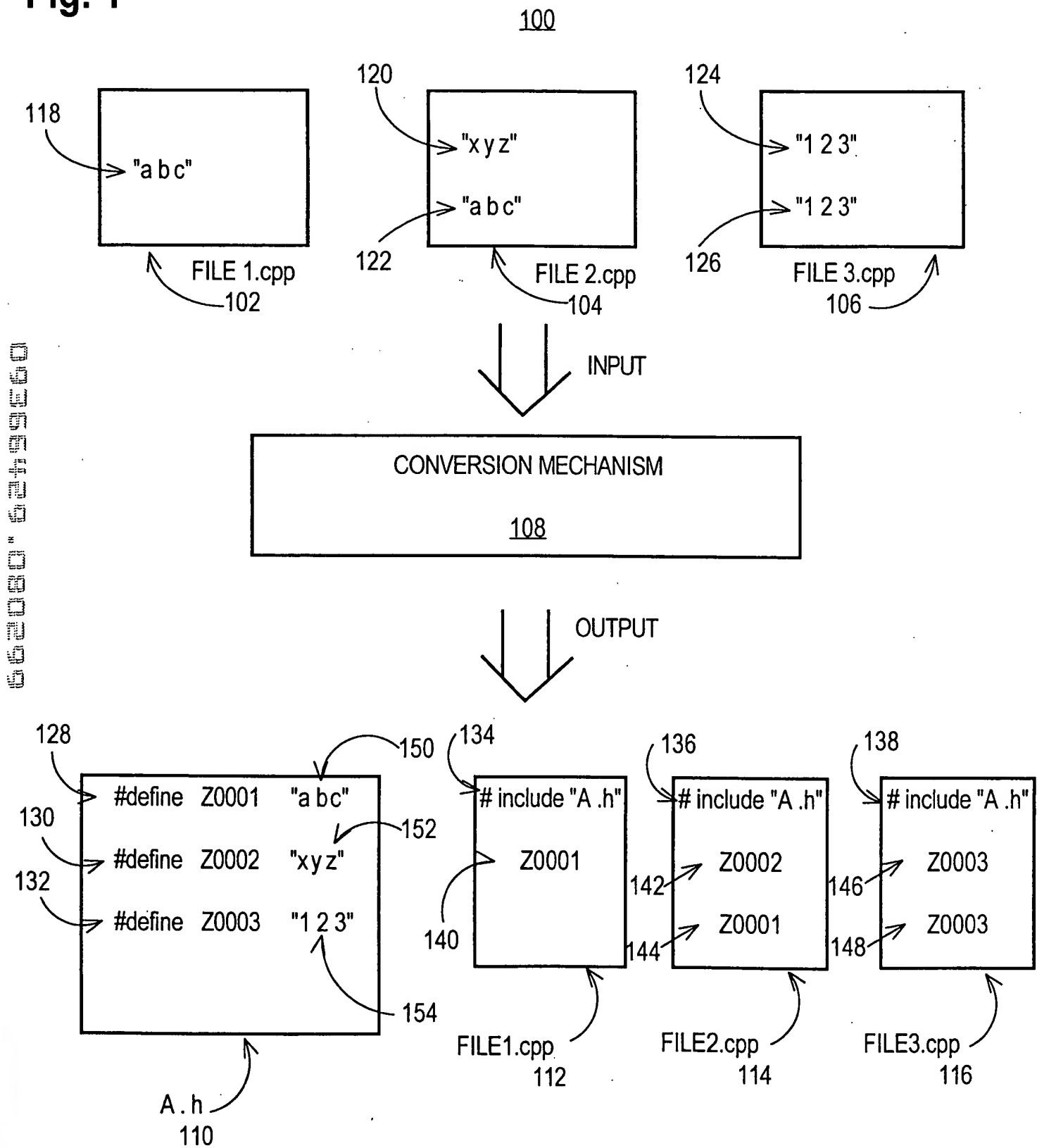


Fig. 2

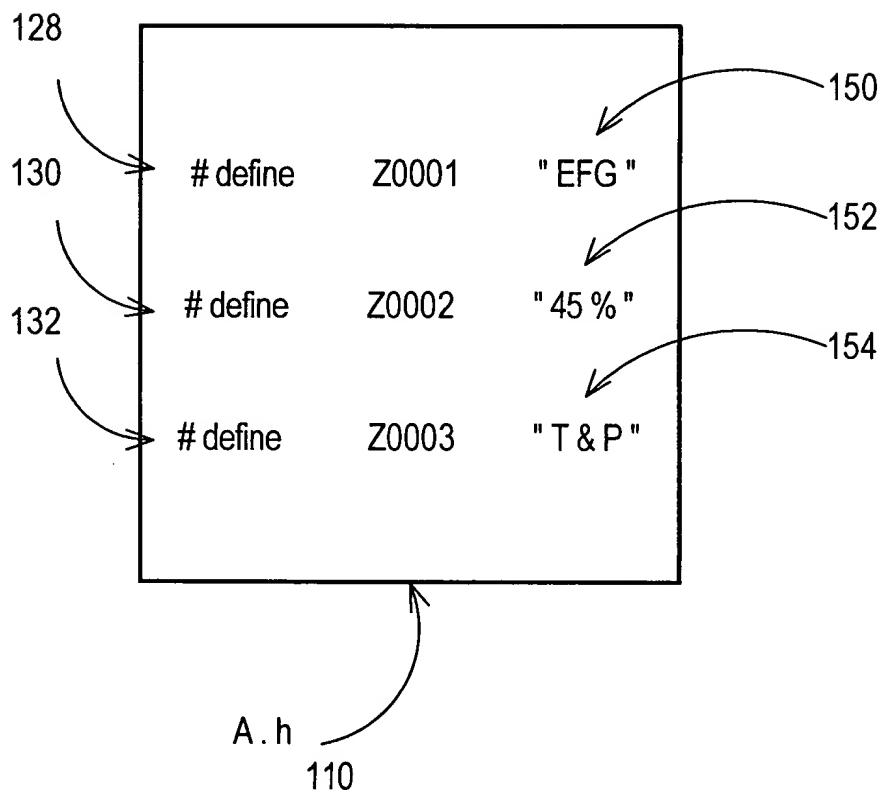
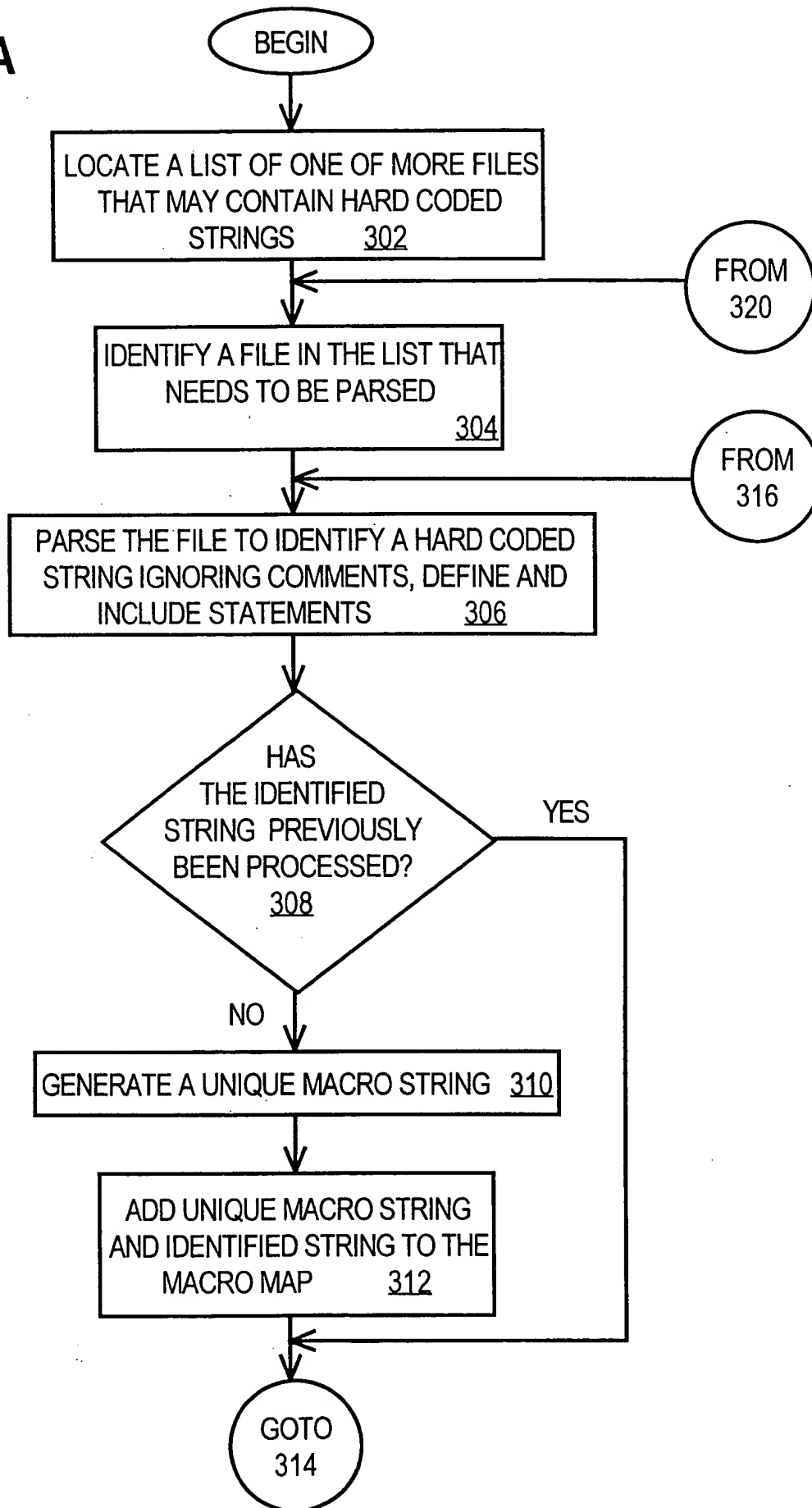
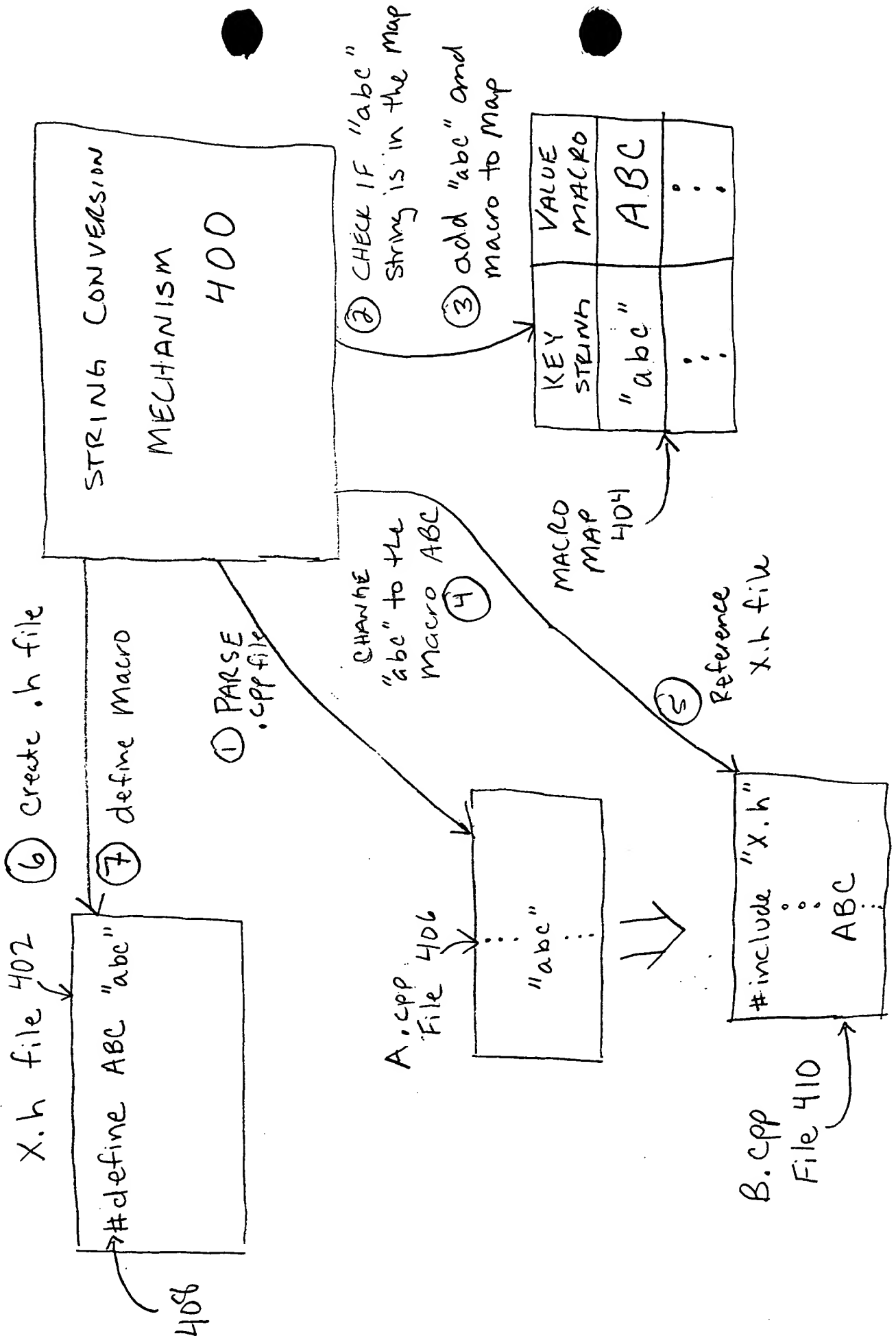


Fig. 3A



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FIG. 4



String Conversion System 500

Parser Module 502

Functions:

- ① Parses the .cpp file:
 - gets Tokens from the file;
 - ignores #include statements and comments.
2. Creates Macro for the string token.
3. Passes string and the macro to the Macro Map, cpp File Manager, h File Manager

Attributes:

source code file list

Classes:

Scanner, Token, Parser

Source Code File Manager Module

Functions:

504

1. Opens .cpp file.
2. Reads the file and passes chars to the Parser.
3. Changes string to the Macro.
4. Checks for the #include statement.
5. Includes .h file if needed.
6. Closes .cpp file.

Attributes:

source code file pointer

Classes:

Source Code File Manager

Macro Map Manager Manager Module

506

Functions:

1. Checks if Macro is in the Map.
2. Adds String and the Macro to the Map.

Attributes:

Macro Map

Classes:

Macro Map Manager

Header File Manager Module 508

Functions:

1. Creates .h file if needed.
2. defines Macro in the .h file.
3. Closes the header file.

Attributes:

header file pointer;
header filename.

Classes:

Header File manager

FIG. 5

FIG. 6A

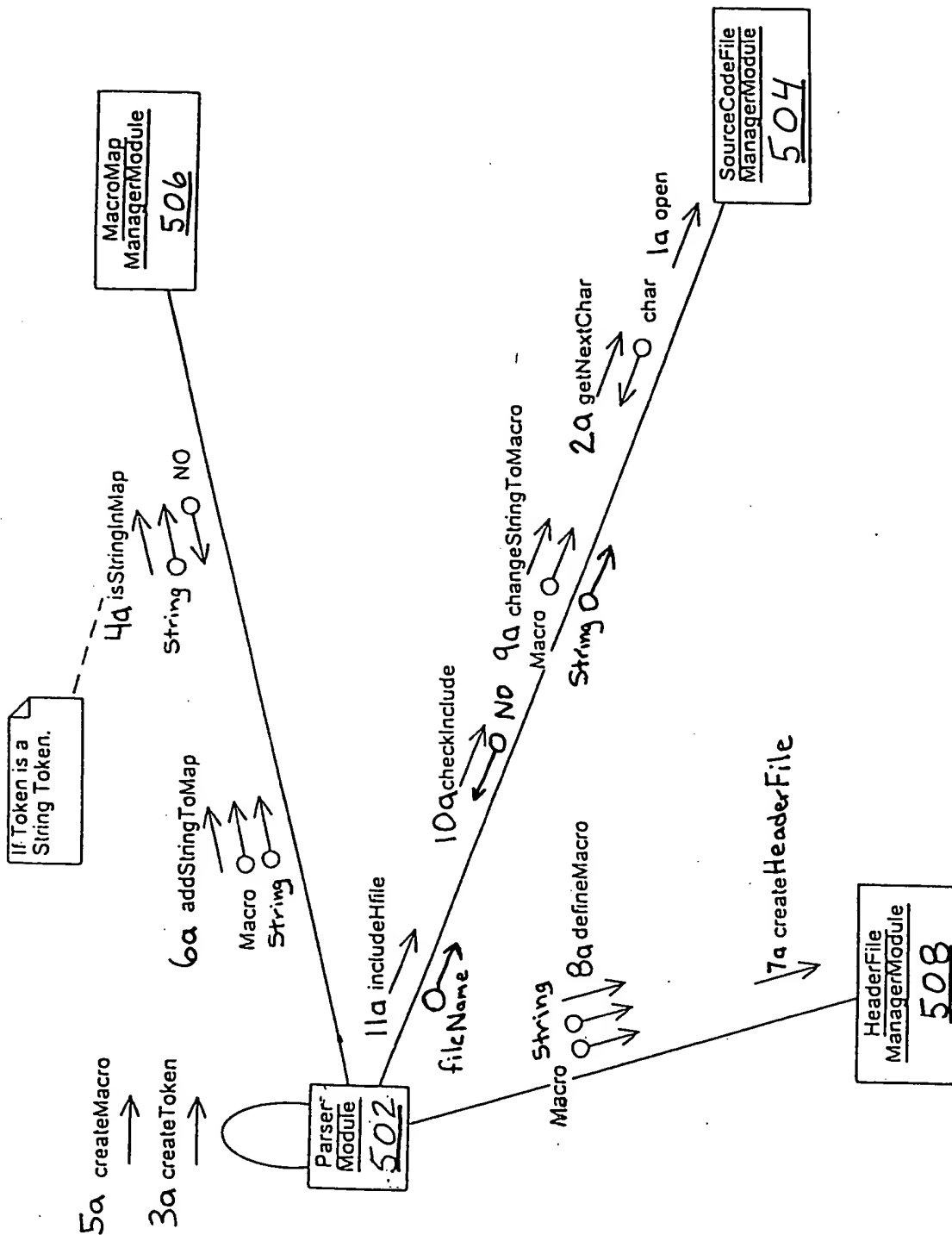


FIG. 6B

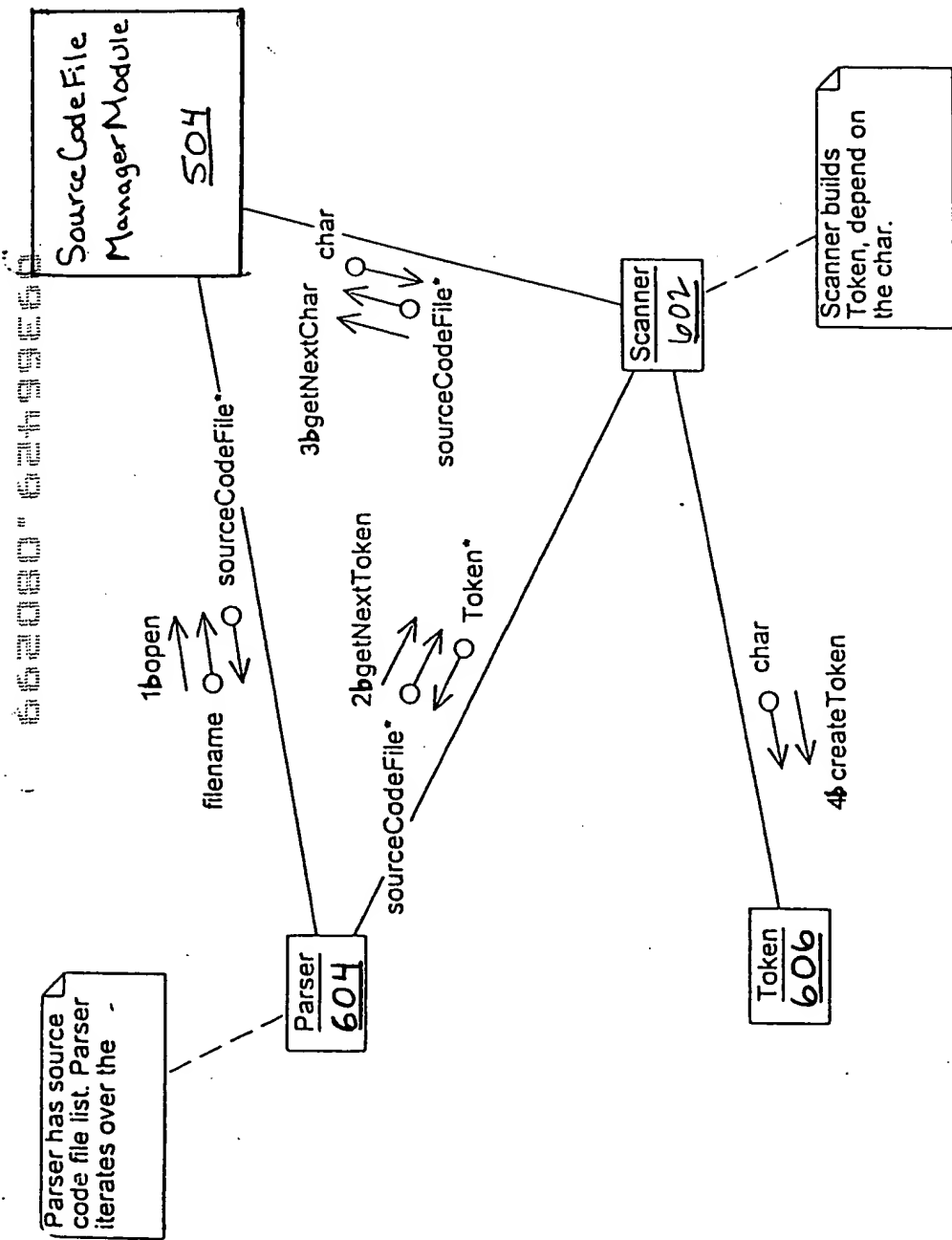


FIG. 6C

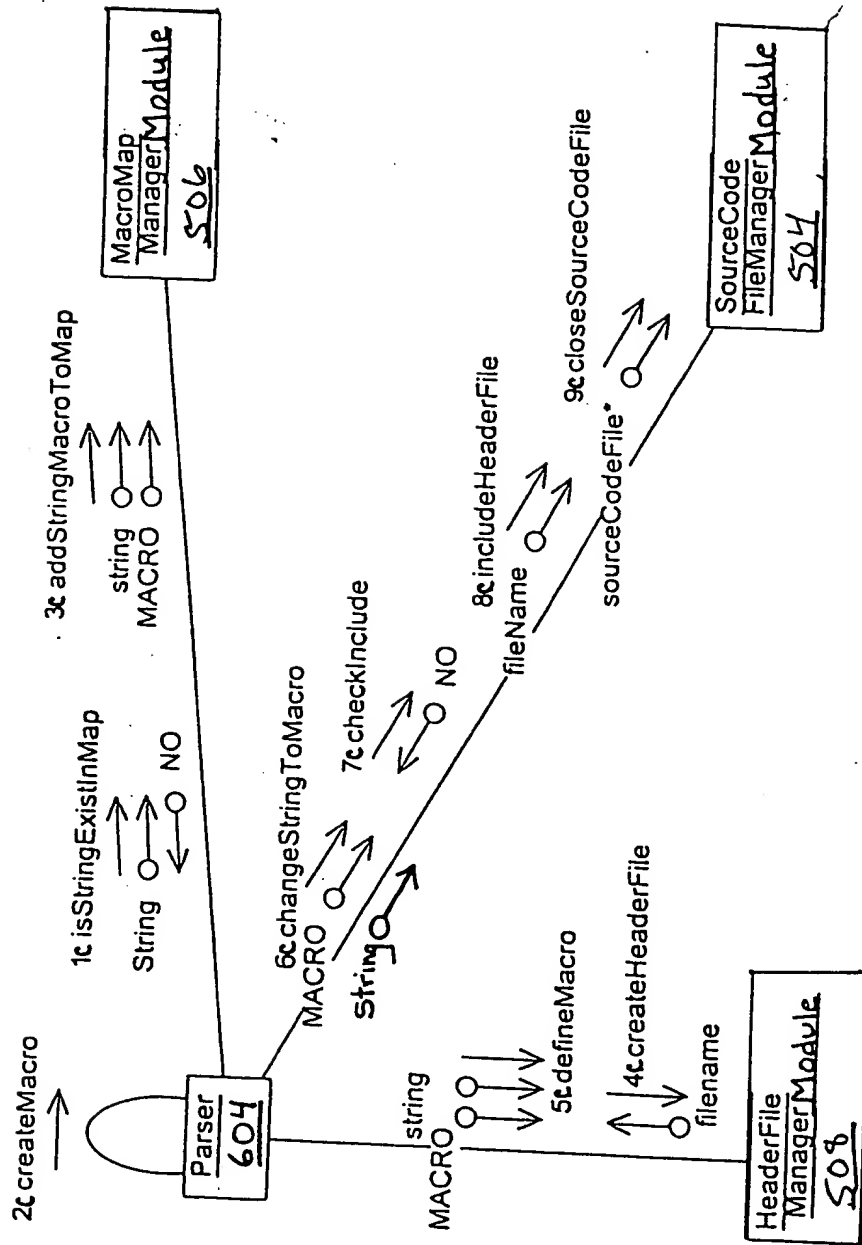


FIG. 7

